
APPENDIX L
Record Drawings

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

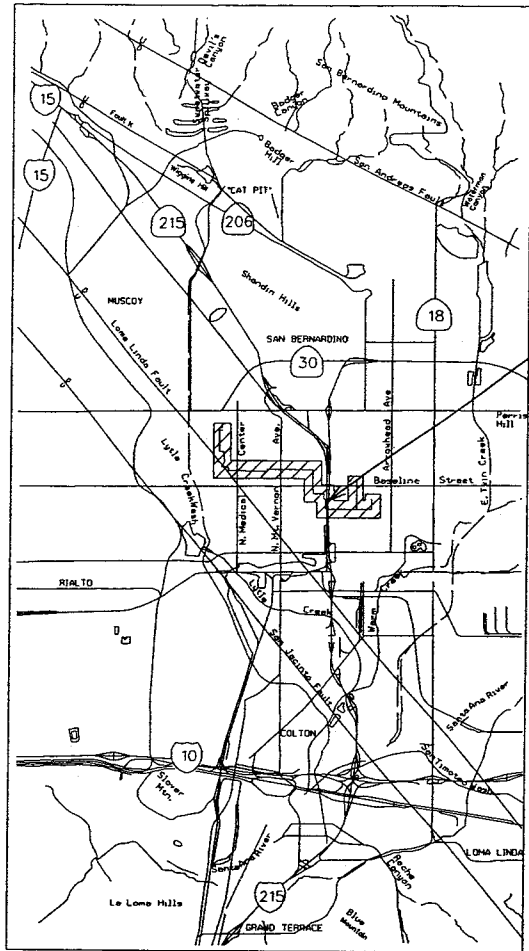
REGION IX

I-215 AND BNSF UNDERCROSSING
CONTRACT NO. 68-W-98-225/WA NO. 014-RDRD-09JS

PREPARED BY
URS CORPORATION
SACRAMENTO, CA.

MAY 2005

RECORD DRAWINGS



PROJECT LOCATION

VICINITY MAP

PRIVATE ENGINEER'S NOTES TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUIT OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

DIG ALERT

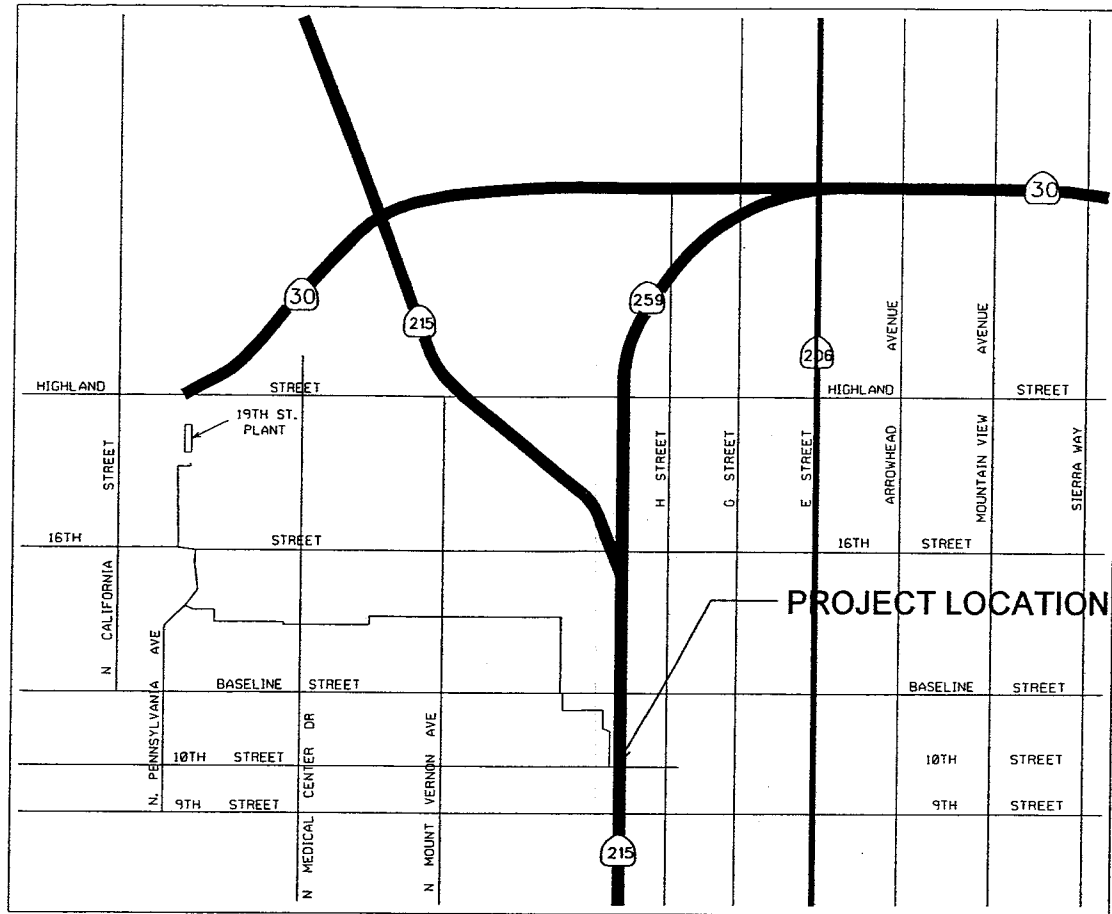
DIAL TOLL FREE
1-800-422-4133

AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

GENERAL NOTES

1. CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR PROTECTION OF EXISTING FACILITIES FROM DAMAGE DUE TO CONTRACTOR'S OPERATIONS.
2. CONTRACTOR AGREES TO ENSURE THAT ALL WORK IS PERFORMED IN A MANNER WHICH MINIMIZES DISTURBANCE TO OWNERS ONGOING ACTIVITIES AT THE SITE. CONTRACTOR SHALL ENFORCE STRICT DISCIPLINE AND GOOD ORDER AMONG ITS EMPLOYEES AT ALL TIMES. CONTRACTOR SHALL NOT EMPLOY ANY PERSON UNFIT OR UNSKILLED IN ANY PROJECT ASSIGNED TO HIM.
3. OSHA PERMIT IS REQUIRED FOR TRENCHES OVER 5 FT. IN DEPTH, PRIOR TO START OF TRENCH EXCAVATION.
4. ALL WATERLINE CONNECTION POINTS AND CRITICAL UTILITY CROSSINGS POINTS SHALL BE EXPOSED AND ACCURATELY LOCATED AT THE START OF CONSTRUCTION, AND THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO THE CONTINUATION OF WORK.
5. THE CONTRACTOR SHALL NOT OPEN MORE TRENCHES THAN CAN BE PROPERLY PROSECUTED IN A DAY'S OPERATION. ANY TRENCH UNAVOIDABLY LEFT OPEN DURING THE HOURS OF DARKNESS OR OVER A WEEKEND SHALL BE BRIDGED BY A TRAFFIC PLATE WITH REFERENCE TO THE W.A.T.C.H. MANUAL.
6. THE CONTRACTOR SHALL REINSTALL PAVEMENT MARKINGS AND STRIPPING THAT HAVE BEEN DISTURBED BY HIS OPERATIONS.
7. THE CONTRACTOR SHALL PROVIDE SAFE AND CONTINUOUS PASSAGE FOR LOCAL PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES WITH REFERENCE TO THE W.A.T.C.H. MANUAL.
8. TRAFFIC SIGNALS FUNCTIONS SHALL BE THE RESPONSIBILITY OF THE CITY OF SAN BERNARDINO, DEPARTMENT OF PUBLIC WORKS. HOWEVER, THE CONTRACTOR IS REQUIRED TO GIVE 48-HOUR NOTICE PRIOR TO ANY CONSTRUCTION THAT MAY DAMAGE OR AFFECT BURIED TRAFFIC DETECTORS.
9. THE CONTRACTOR SHALL SO CONDUCT HIS OPERATIONS AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC, AND HE SHALL HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAT HE CAN PROSECUTE PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PUBLIC. CONVENIENT ACCESS TO DRIVEWAYS, HOUSES, AND BUILDINGS ALONG THE LINE OF WORK SHALL BE MAINTAINED.



PROJECT LOCATION

LOCATION MAP

TAINED. TEMPORARY CROSSINGS SHALL BE PROVIDED AND MAINTAINED IN GOOD CONDITION. NOT MORE THAN ONE CROSSING OR INTERSECTING STREET OR ROAD SHALL BE CLOSED AT ANY ONE TIME WITHOUT THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUCH FENCES, BARRIERS, DIRECTIONAL SIGNS, LIGHTS, AND FLAGMEN AS ARE NECESSARY TO GIVE ADEQUATE WARNING TO THE PUBLIC AT ALL TIMES OF ANY DANGEROUS CONDITIONS TO BE ENCOUNTERED AS A RESULT OF THE CONSTRUCTION WORK, AND TO GIVE DIRECTIONS TO THE PUBLIC.

10. ALL REMOVALS IN PAVED AREAS SHALL BE SAW CUT ON A NEAT, STRAIGHT LINE PARALLEL TO THE PIPE LINE. THE CUT EDGE SHALL BE PROTECTED FROM CRUSHING AND ALL BROKEN EDGES SHALL BE RECUR PRIOR TO PAVING OPERATIONS.

11. DUST SHALL BE CONTROLLED AT ALL TIMES BY APPROVED METHODS.

12. PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE FROM DIRT AND/OR DEBRIS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED IN STREET CLEANING NECESSITATED BY HIS OPERATION.

13. ALL TRENCH BACKFILLS SHALL BE TESTED AND CERTIFIED BY A SOILS ENGINEER PRIOR TO ACCEPTANCE.

14. THE CONTRACTOR SHALL NOT MAKE ANY CONNECTION TO THE EXISTING SBMWD DISTRIBUTION SYSTEM WITHOUT FIRST GAINING WRITTEN PERMISSION TO DO SO FROM THE WATER DEPARTMENT ENGINEER. IN THE EVENT THAT PERMISSION IS GRANTED, A SBMWD INSPECTOR MUST BE PRESENT ON SITE TO WITNESS SAID CONNECTION(S). TEST PLATES SHALL BE INSTALLED ON THE NEW CONSTRUCTED SIDE OF ALL MAIN CONNECTION POINTS. THE CONTRACTOR MAY USE ALTERNATIVE METHODS. ALL FLUSHING, CHLORINATION, AND TESTING SHALL BE PERFORMED EITHER BY (A) WATER TRUCK, OR (B) HYDRANT-TO-HYDRANT CONNECTION THROUGH AN APPROVED BACKFLOW PREVENTION ASSEMBLY.

15. ALL WATER MAINS AND APPURTENANCES SHALL BE PRESSURE TESTED AND DISINFECTED PRIOR TO ACCEPTANCE BY THE SBMWD.

16. ALL TESTING AND DISINFECTION SHALL BE MADE IN THE PRESENCE OF THE INSPECTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN TWENTY-FOUR (24) HOURS IN ADVANCE OF THE ACTUAL TIME OF TESTING AND/OR DISINFECTION SO THAT THE WATER DEPARTMENT ENGINEER OR DESIGNEE MAY OBSERVE THE PROCEDURE.

17. IF THE PRESSURE TEST, CHLORINATION OR BACTERIOLOGICAL TEST FAIL TO MEET THE REQUIREMENT OF THE SPECIFICATIONS, THE CONTRACTOR SHALL MAKE ALL NECESSARY REPAIRS, REPLACEMENTS OR REPETITION OF PROCEDURES AT HIS OWN EXPENSE.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAVEMENT REPLACEMENT FOR ALL TRENCH CUTS AND DAMAGE TO EXISTING PAVEMENT.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND RELOCATION OF ALL SEWER LATERALS DAMAGED OR THAT REQUIRE RELOCATION AS A PART OF THIS PROJECT. ALL SEWER LATERALS BELOW WHICH THE TRENCH IS EXCAVATED SHALL BE REMOVED AND REPLACED AFTER TRENCH COMPACTION.

20. THE CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN THE NEW PIPELINE AND EXISTING SEWER LINES IN ACCORDANCE WITH DETAIL SHOWN ON SHEET 25 AND STATE HEALTH DEPARTMENT STANDARDS.

RECORD DRAWINGS

DESIGNED BY: JB
DRAWN BY: JC
CHECKED BY: DHD

URS

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MUSCOY OU REMEDIAL DESIGN
MUSCOY GROUNDWATER
CONTAMINATION SUPERFUND SITE

LOCATION MAPS
GENERAL NOTES

Scale:
NO SCALE

Date: 12/01

Dwg. No.: 1

SHEET INDEX

SHT 1 LOCATION MAPS AND GENERAL NOTES

SHT 2 INDEX, LEGEND & ABBREVIATIONS

SHT 3 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 4 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 5 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 6 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 7 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 8 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 9 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 10 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 11 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 12 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 13 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 14 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 15 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 16 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 17 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 18 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 19 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 20 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 21 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 22 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 23 PLAN AND PROFILE

STA 10+00 TO STA 10+00

10TH ST. - PENNSYLVANIA AVE.

SHT 24 MISCELLANEOUS DETAILS

SHT 25 MISCELLANEOUS DETAILS

SHT 26 MISCELLANEOUS DETAILS

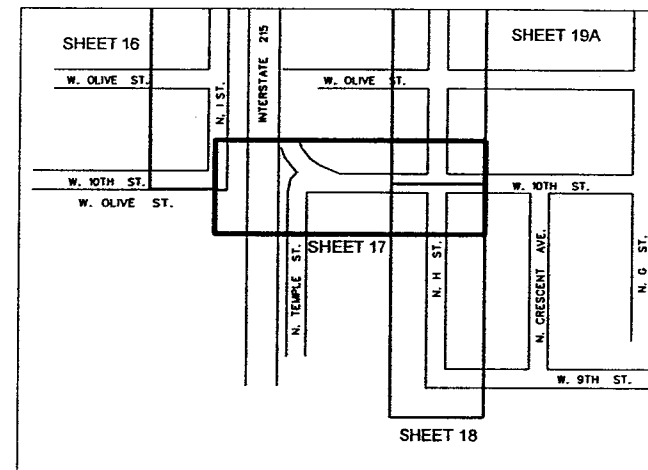
SHT 27 MISCELLANEOUS DETAILS

LEGEND

EXISTING BURIED FACILITY	ARY
CENTERLINE	BF
RIGHT-OF-WAY	BFV
NEW PIPELINE	BO
WASTELINE	CAV
MANHOLE	CL
GATE VALVE	E
REDUCER	D
BUTTERFLY VALVE	DP
COMBINATION AIR VALVE	E
BLOW OFF	ECC
	FCA
	FLG
	F.O.
	G
	GB
	IN
	LF
	L

ABBREVIATIONS

ARY	AIR RELEASE VALVE	MJ	MECHANICAL JOINT
BF	BLIND FLANGE	N.C.	NORMALLY CLOSED
BFV	BUTTERFLY VALVE	N.C.	NOT IN CONTRACT
BO	BLOW OFF	N.O.	NORMALLY OPEN
CAV	COMBINATION AIR VALVE	O.D.	OUTSIDE DIAMETER
CL	CEMENT LINED	PRV	PRESSURE REDUCING VALVE
E	CENTERLINE	RCP	REINFORCED CONCRETE PIPE
D	DRAIN	RED	REDUCER
DP	DUCTILE IRON PIPE	RW	RIGHT-OF-WAY
E	ELECTRICAL	S	SLOPE
ECC	ECCENTRIC	SBCCD	SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT
FCA	FLANGED COUPLING ADAPTOR	SS	SANITARY SEWER
FLG	FLANGED	STA	STATION
F.O.	FIBER OPTICS	T	TELEPHONE
G	GAS	W	WATER
GB	GRADE BRAKE	W/	WITH
IN	INVERT ELEVATION	WP	WRAPPED
LF	LINEAL FEET		
L	LAYOUT LINE		



BENCHMARK * A3-3
CITY OF SAN BERNARDINO DATUM: BRASS DISK
STAMPED "CSB A3-3" @ 68.0' NORTH AND 33.5'
EAST OF THE CTR. LINE P.I. OF 8TH AND H ST;
2.0' EAST OF THE MOST EASTERLY CURB OF
H ST. AT THE NORTH EAST CORNER OF A
CONCRETE CATCH BASIN

BENCHMARK * A3-6
CITY OF SAN BERNARDINO DATUM: BRASS DISK
STAMPED "CSB A3-6" @ 38.0' NORTH AND 25.0'
EAST OF THE CTR. LINE P.I. OF BASELINE AND
"C" ST. 7.0' NORTH OF THE NORTH CURBLINE
OF BASELINE; 10.0' EAST OF THE EAST CURBLINE
OF "C" ST. AT THE INTERSECTION OF THE BACKS
OF THE SIDEWALKS.

BENCHMARK *
CITY OF SAN BERNARDINO DATUM: BRASS DISK
STAMPED "CSB G1-41" @ 41.25' EAST AND 30.0'
SOUTH OF THE CENTERLINE P.I. OF MT. VERNON
AND 14TH ST.; 9.75' SOUTH OF THE SOUTH
CURBLINE OF MT. VERNON AVE.; 2.0' EAST OF
THE NORTHSOUTH SIDEWALK ABOUT 0.2'
LOWER THAN THE PAVEMENT.

BASIS OF BEARINGS

BEARINGS HEREON ARE BASED ON THE CALIFORNIA
COORDINATE CONTROL SYSTEM NAD83, ZONE 5,
EPOCH 1997 AS DEFINED BY THE FOLLOWING CORS
CONTROL STATIONS:
LAKE SKINNER (BILL) CORS STATION PID AF9684
H N-2,154,993.788; E-6,313,585.124; ELEV-1,648.862
GOLD STONE (GOLD) CORS STATION PID AF9648
H N-2,826,927.520; E-6,371,082.847; ELEV-3,338.258
PINON 1 (PIP1) CORS STATION PID AF9708 H
N-2,168,428.448; E-6,498,294.882; ELEV-4,230.858
TORRANCE AIRPORT (TORP) CORS STATION PID AF9714
H N-2,240,224.876; E-6,929,602.727; ELEV-78.099

RECORD DRAWINGS

DESIGNED BY: JB

DRAWN BY: JC

CHECKED BY: DHD

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JOB No. 41-F2501400



MUSCOY OU REMEDIAL DESIGN
MUSCOY GROUNDWATER
CONTAMINATION SUPERFUND SITE

INDEX, LEGEND
AND ABBREVIATIONSScale:
NO SCALE

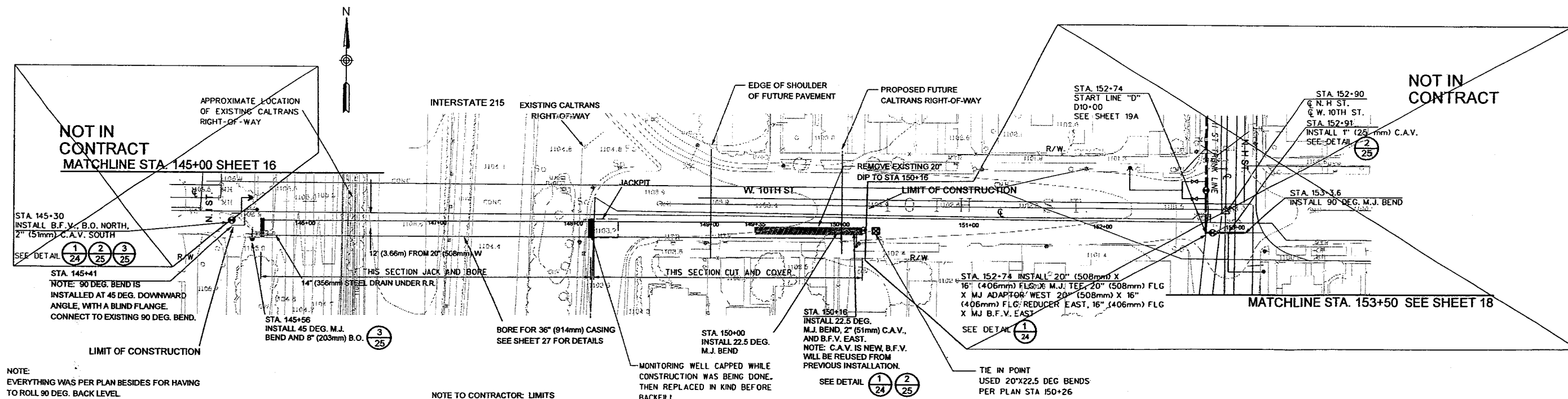
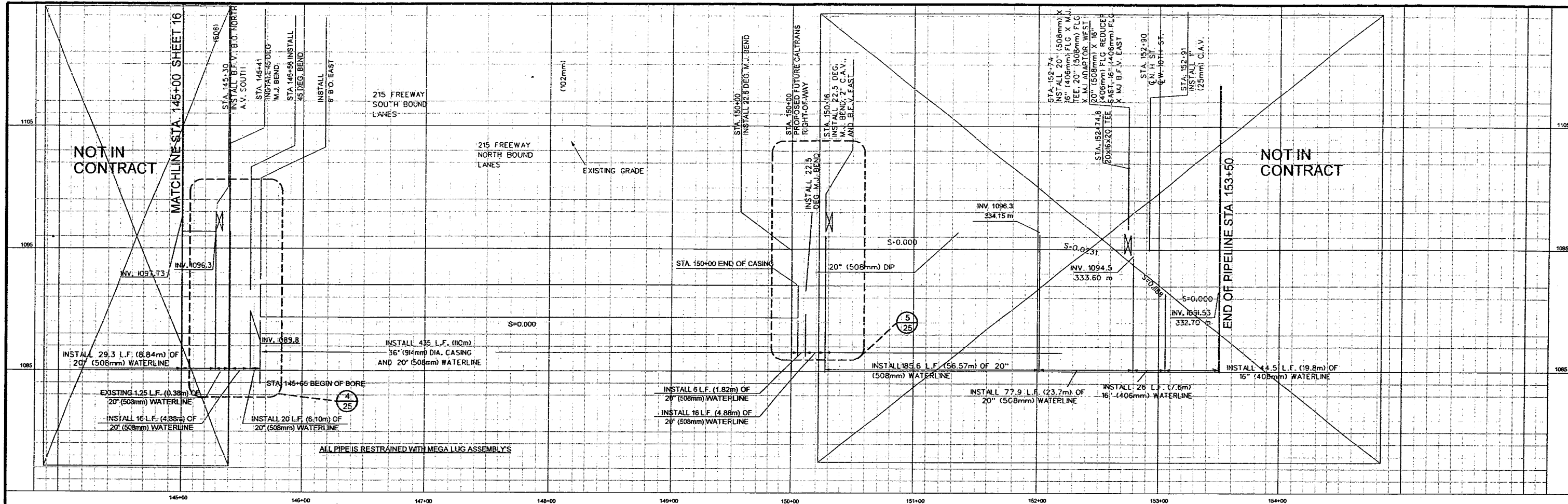
Date: 12/01

Dwg. No.: 2

REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

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NOTE:
EVERYTHING WAS PER PLAN BESIDES FOR HAVING
TO ROLL 90 DEG. BACK LEVEL.

REVISED PLANS

CALTRANS PERMIT # 08-01-N-UJ-1525

NOTE TO CONTRACTOR: LIMITS
OF WORK, PIPE HAS BEEN INSTALLED ON
WEST SIDE TO STA. 145+41 INCLUDING
THE 90 DEG. BEND. PIPE HAS BEEN
INSTALLED ON EAST SIDE TO STA. 149+35
INCLUDING THE 20\"/>

MONITORING WELL CAPPED WHILE
CONSTRUCTION WAS BEING DONE.
THEN REPLACED IN KIND BEFORE
BACKFILL.

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	6-02	LOWERED BORE TO 1092			
2	5-05	RECORD DRAWINGS			
REVISIONS					

DESIGNED BY: JB
DRAWN BY: JC
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JOB No. 4I-F2501400

MUSCOY OU REMEDIAL DESIGN
MUSCOY GROUNDWATER
CONTAMINATION SUPERFUND SITE

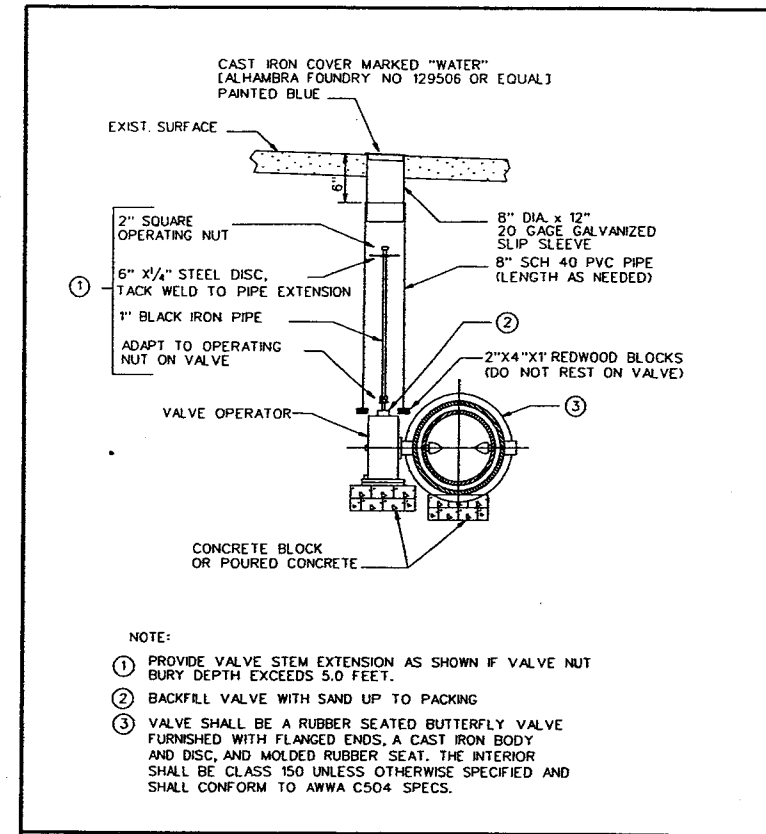
PLAN AND PROFILE
N. I ST. - FREEWAY CROSSING
W. 10TH ST.
STA. 145+00 TO STA. 153+50

Scale: 1" = 40' Date: 07/2002 Dwg. No.: 17

RECORD DRAWINGS

IF SHEET IS LESS THAN
22" x 34"
IT IS A REDUCED PRINT.
SCALE REDUCED ACCORDINGLY.

FILES
DATES
TIMES



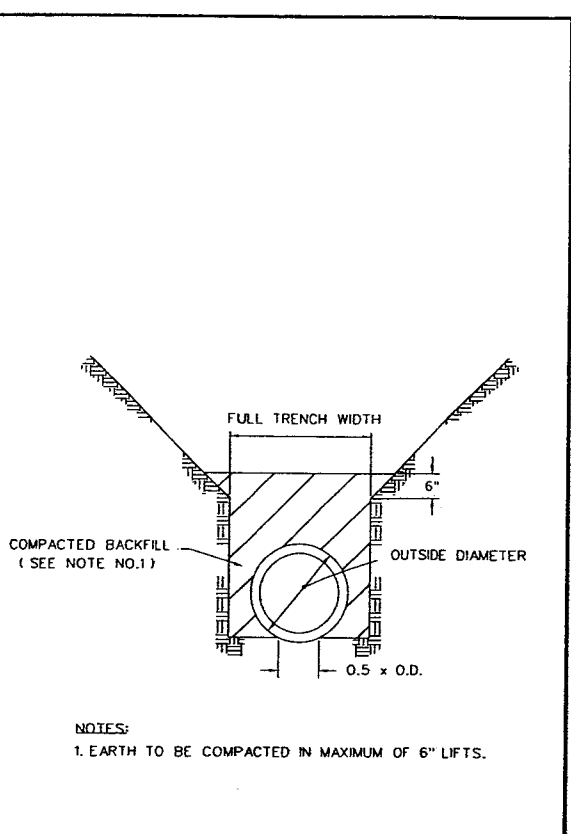
1 TYPICAL BUTTERFLY VALVE INSTALLATION

PIPE SIZE	VERTICAL BENDS					TEE	DEAD END	VERTICAL BENDS				
	15° BEND	22.5° BEND	45° BEND	90° BEND	15° BEND			22.5° BEND	45° BEND	90° BEND		
12"	4'	8'	17'	40'	52'	60'	4'	9'	8'	18'	17'	37'
16"	5'	10'	22'	52'	70'	78'	5'	11'	10'	23'	22'	48'
20"	6'	13'	26'	64'	88'	97'	6'	14'	13'	28'	26'	59'
24"	7'	15'	31'	75'	106'	115'	7'	17'	15'	33'	31'	69'
30"	9'	18'	38'	91'	132'	141'	9'	20'	18'	41'	38'	85'

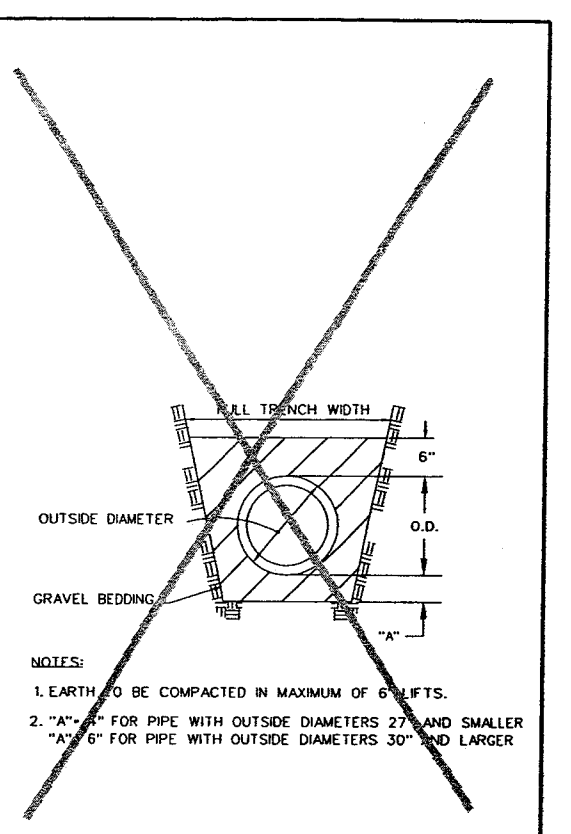
NOTES:

- USE THE FOLLOWING GUIDELINES WHEN OTHER PIPE JOINTS ARE WITHIN 10 FEET OF THE JOINT BEING RESTRAINED:
 - USE THE "DEAD END" LENGTH FOR CONNECTIONS TO ANY MATERIAL EXCEPT DUCTILE IRON AND CAST IRON.
 - USE THE "DEAD END" LENGTH WHEN ANOTHER PIPE JOINT IS WITHIN 10 FEET OF A BEND BEING RESTRAINED.
 - USE THE "90° BEND" LENGTH WHEN ANOTHER PIPE JOINT IS WITHIN 10 FEET OF A TEE BEING RESTRAINED.
- DIVIDE RESTRAINED LENGTH BY 0.85 FOR SILTY SOIL.
- THIS TABLE IS BASED ON THE ASSUMPTION THAT THE TRENCH IS BACKFILLED TO A MINIMUM DEPTH OF 5 FEET WITH A COHESIVE GRANULAR SOIL WHICH HAS BEEN LIGHTLY COMPACTED.
- RESTRAINED LENGTH ON TEES ASSUMES THE SAME SIZE BRANCH AND RUN. TEES WHICH HAVE BRANCH DIAMETERS LESS THAN THE DIAMETER OF THE RUN MAY REQUIRE A SHORTER RESTRAINED LENGTH. JOINTS ON THE RUN WITHIN 4' OF THE TEE SHALL BE RESTRAINED.

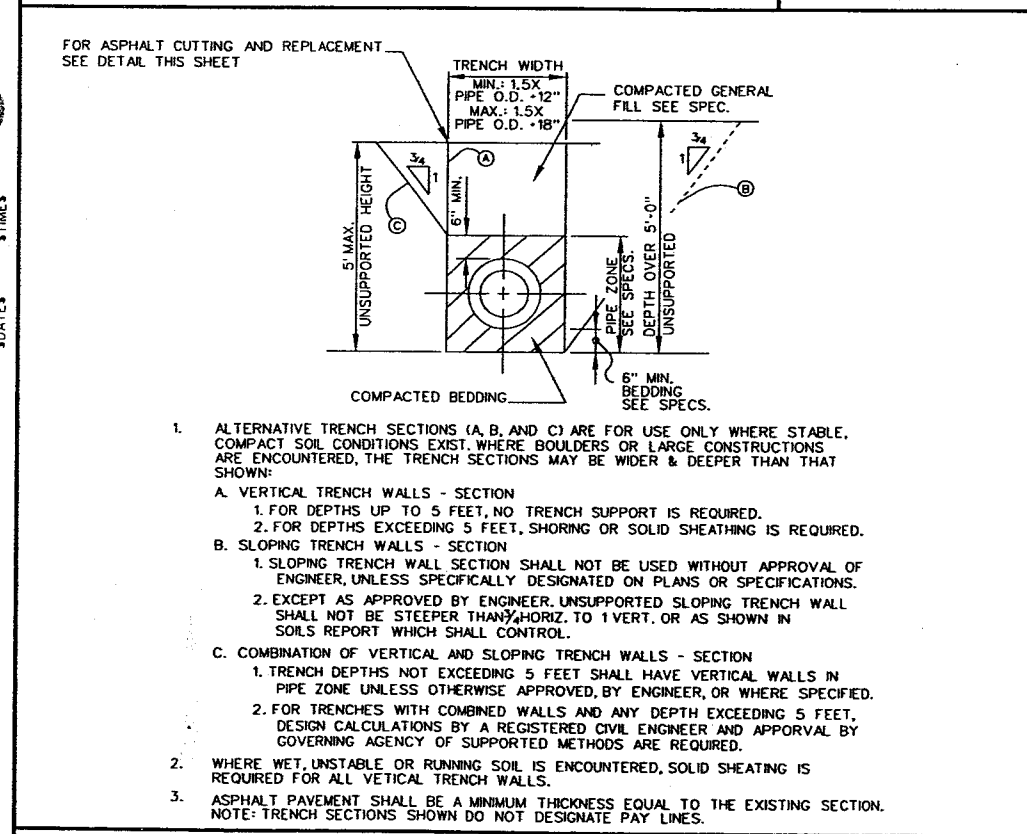
2 RESTRAINED JOINT DETAIL



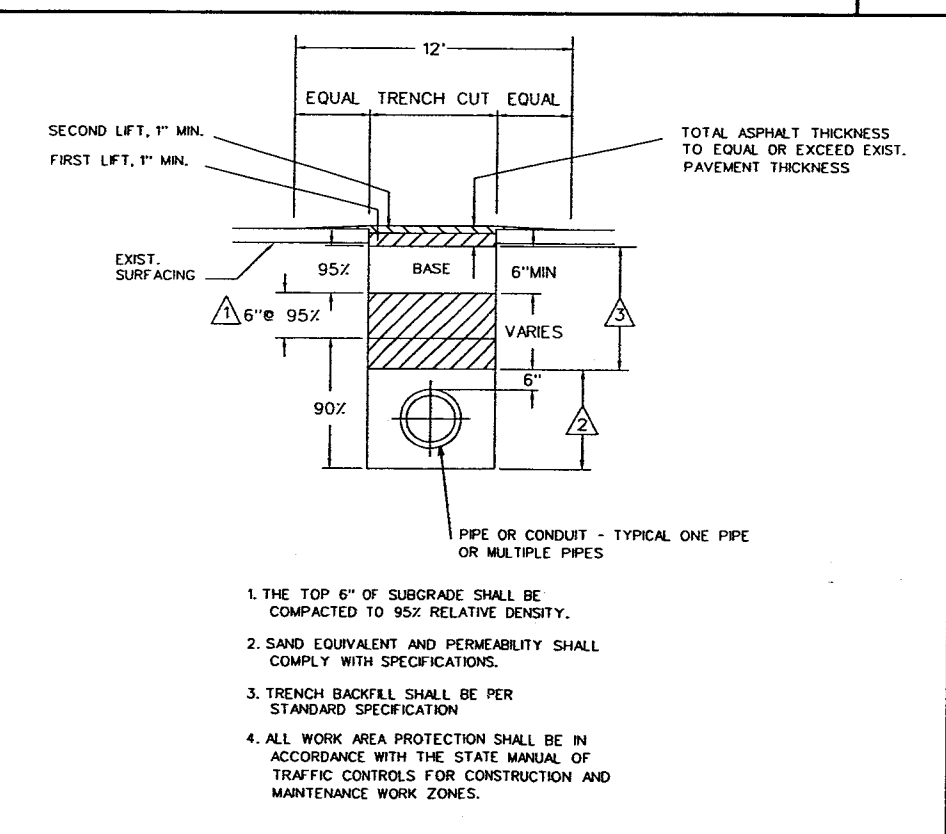
3 RIGID PIPE BEDDING



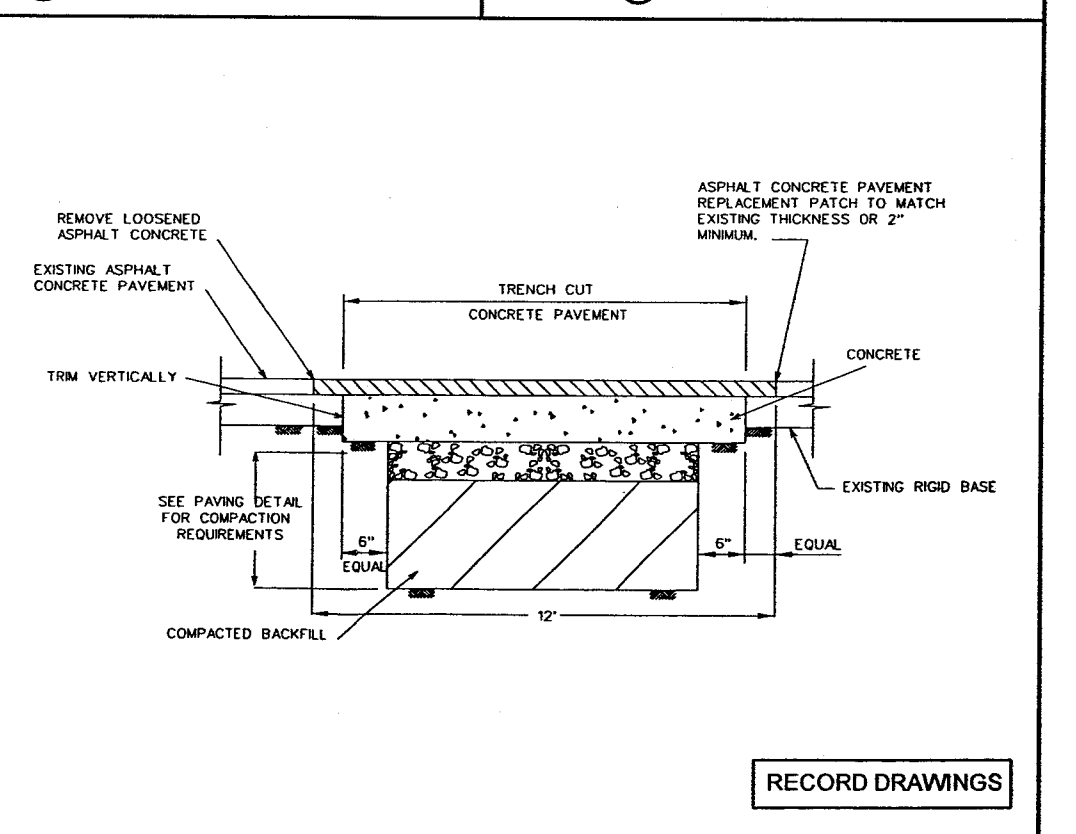
4 FLEXIBLE PIPE BEDDING



5 TYPICAL TRENCH SECTION



6 ASPHALT PAVEMENT PATCHING DETAIL



7 PAVEMENT PATCHING DETAIL RIGID PAVEMENT WITH ASPHALTIC CONCRETE SURFACE

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

DESIGNED BY: JB
DRAWN BY: JC
CHECKED BY: DHD

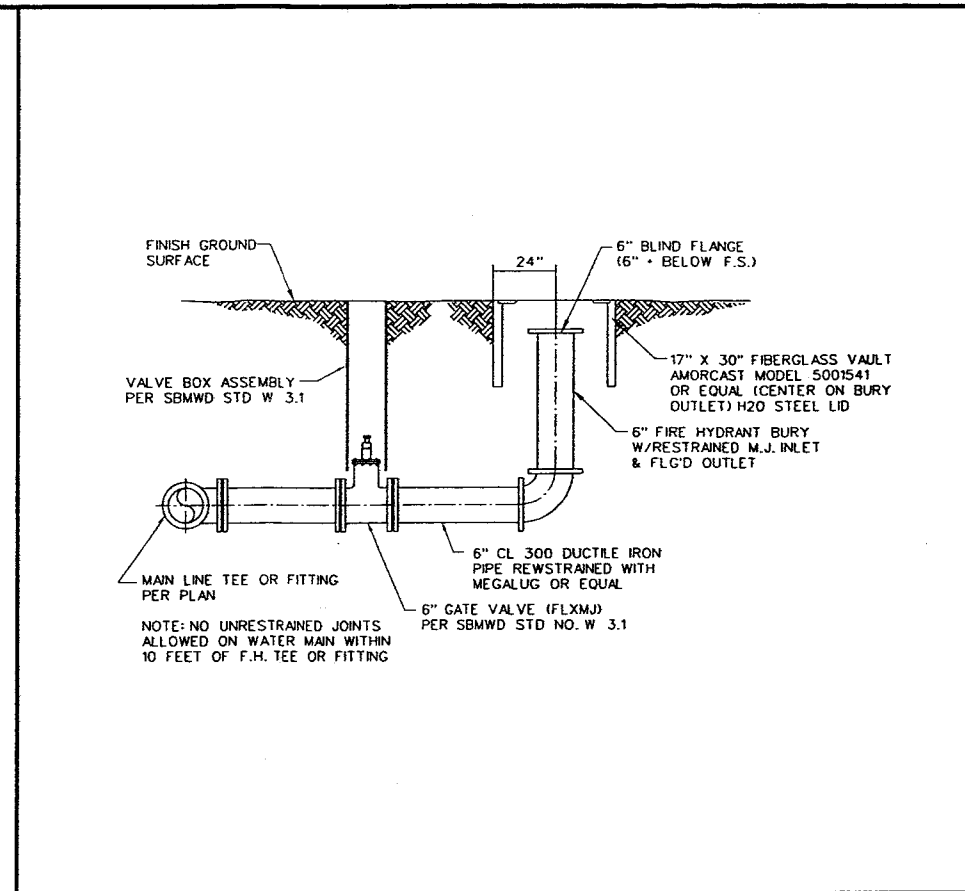
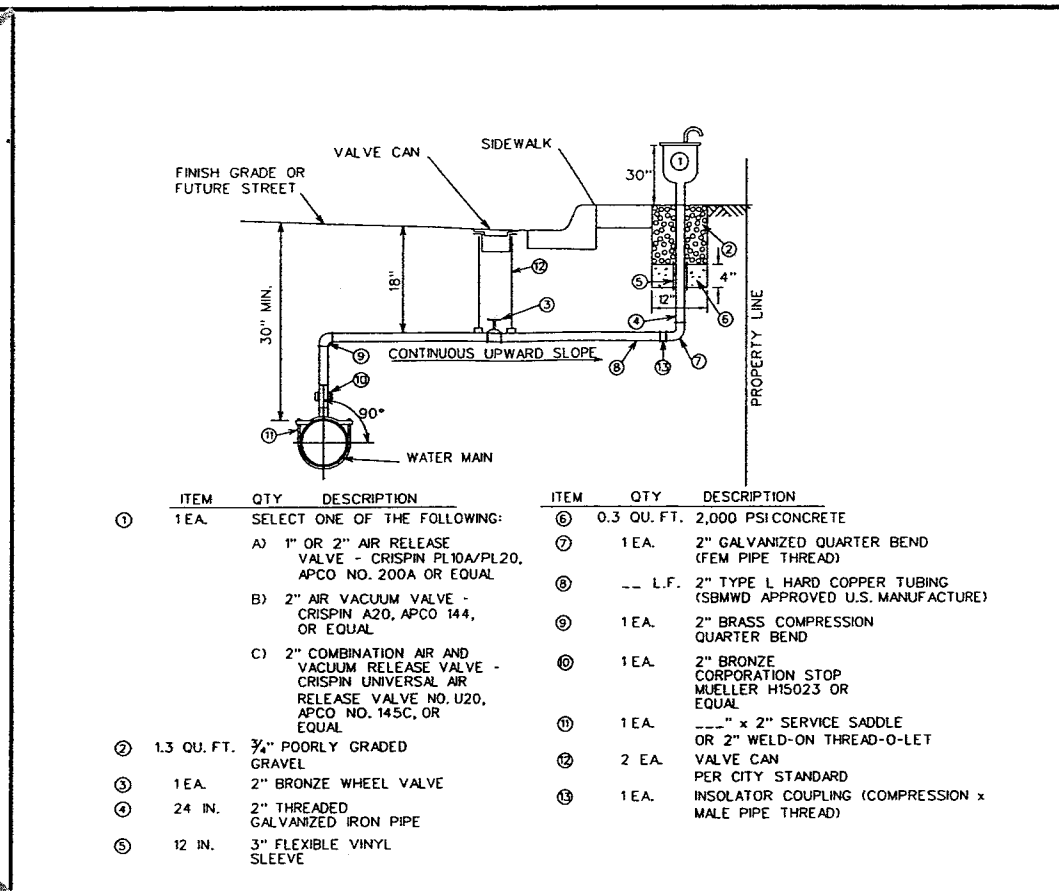
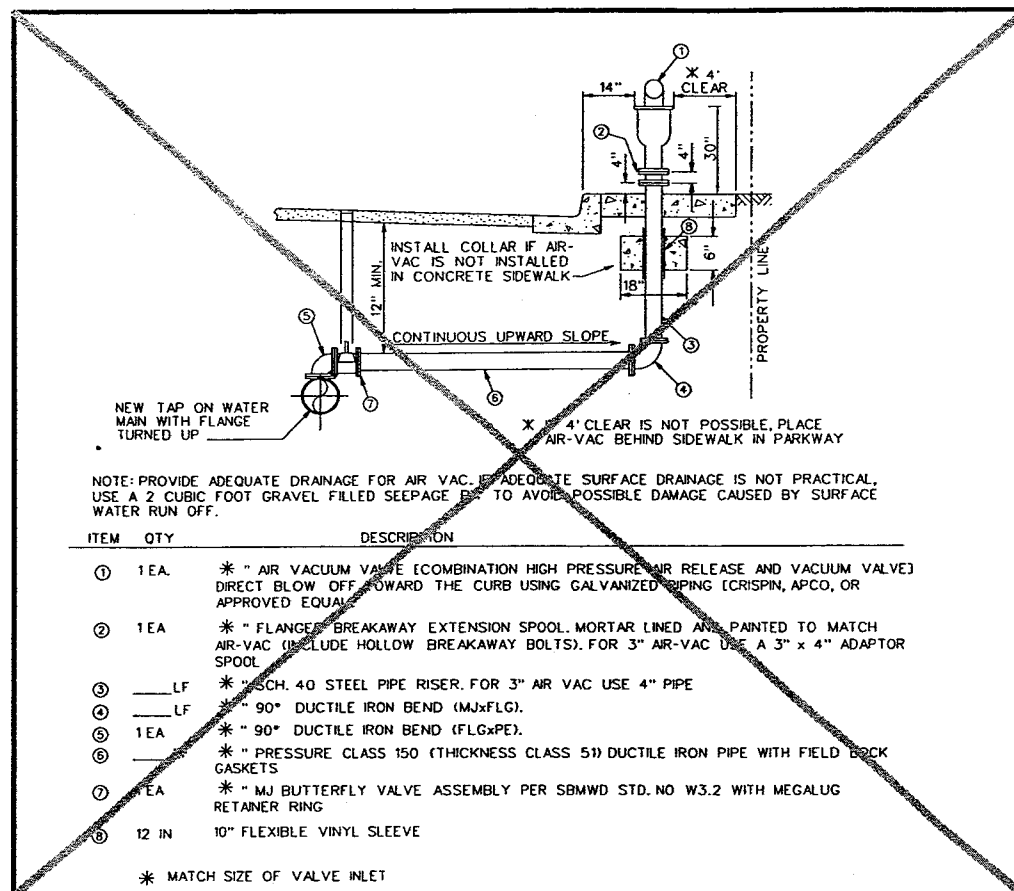
URS
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FAX: (916) 929-7263

JOB No. 41-F2501400



MUSCOY OU REMEDIAL DESIGN
MUSCOY GROUNDWATER
CONTAMINATION SUPERFUND SITE

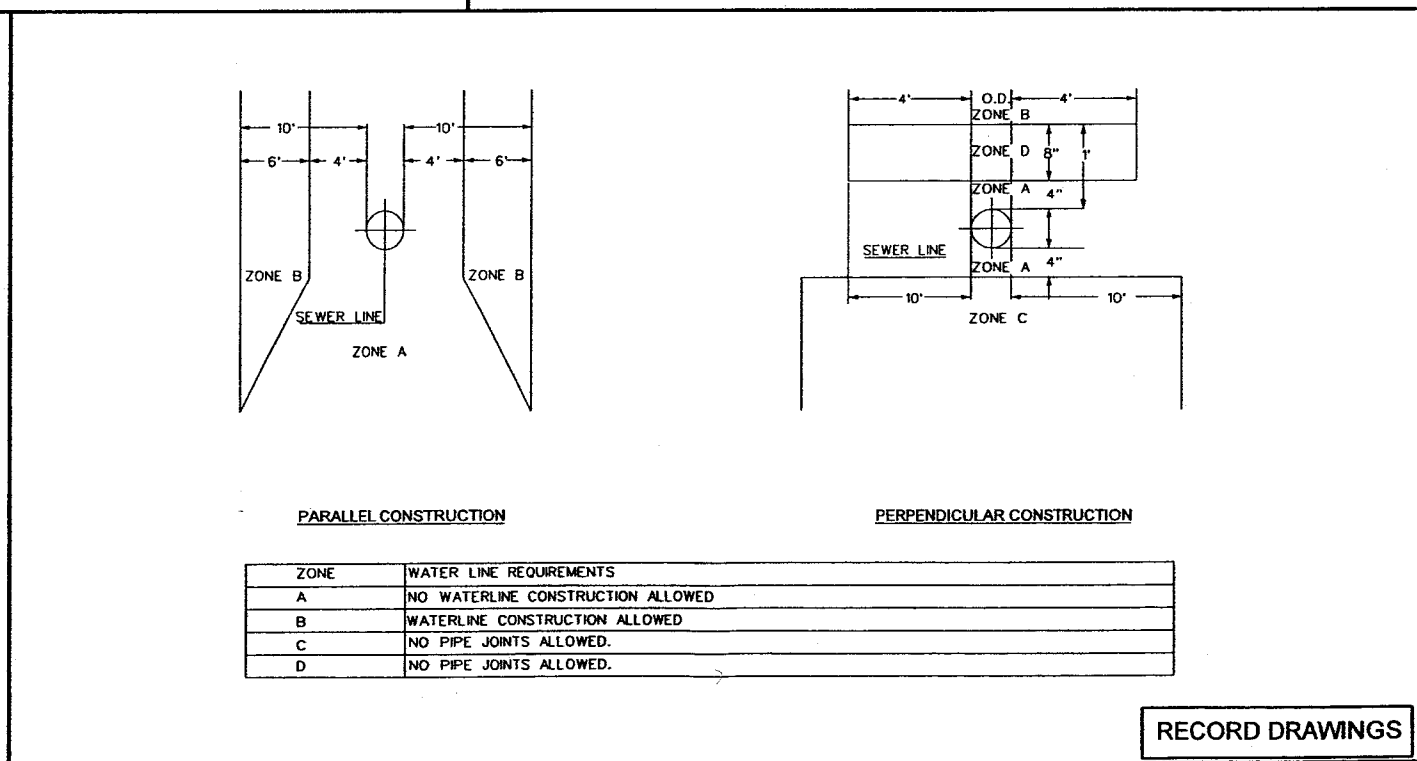
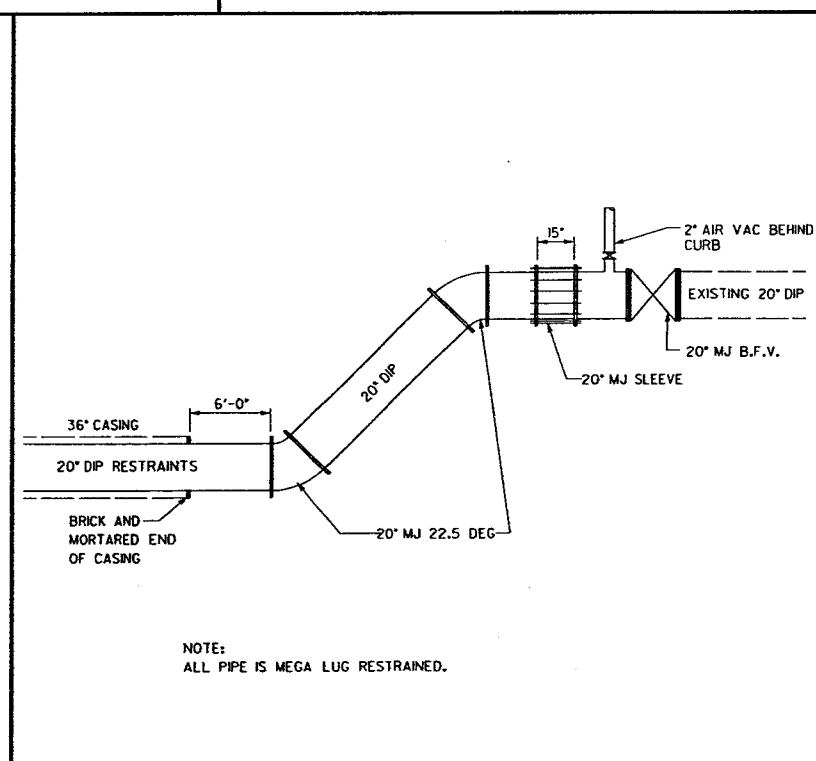
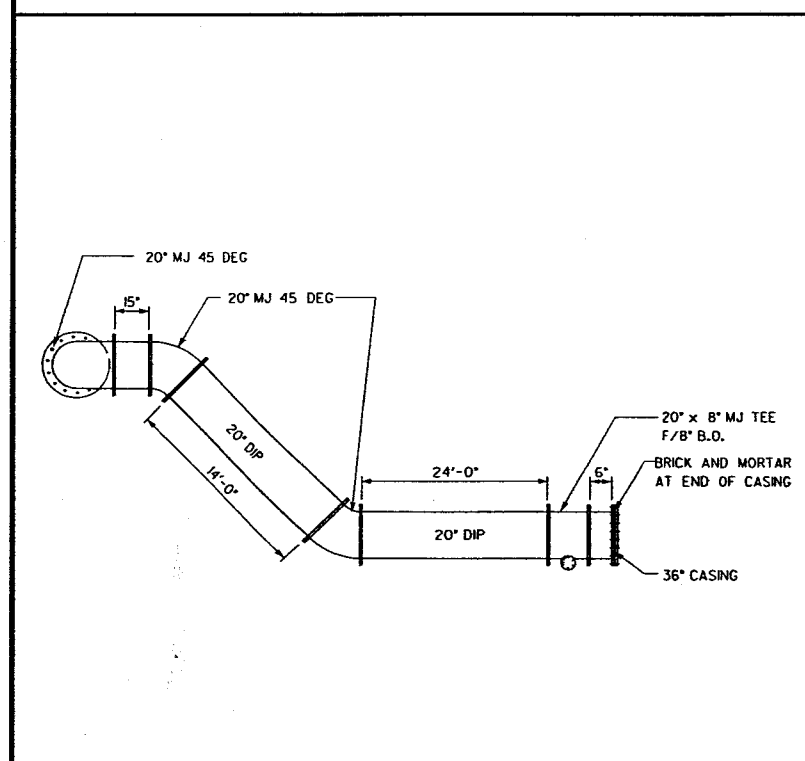
MISCELLANEOUS DETAILS		
Scale:	Date: 12/01	Dwg. No.: 24



1 3" AND LARGER COMBINATION AIR VACUUM AND RELEASE VALVE AND AIR VACUUM VALVE

2 2" AND SMALLER AIR RELEASE VALVE

3 BLOWOFF ASSEMBLY



4 TIE IN TO EXISTING PIPELINE (WEST)

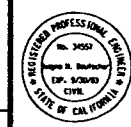
5 TIE IN TO EXISTING PIPELINE (EAST)

6 SEWER MAIN CROSSING DETAIL

1	5-05	RECORD DRAWINGS		
NO.	DATE	DESCRIPTION	NO.	DATE
REVISIONS				

DESIGNED BY: JB
DRAWN BY: JC
CHECKED BY: DHD

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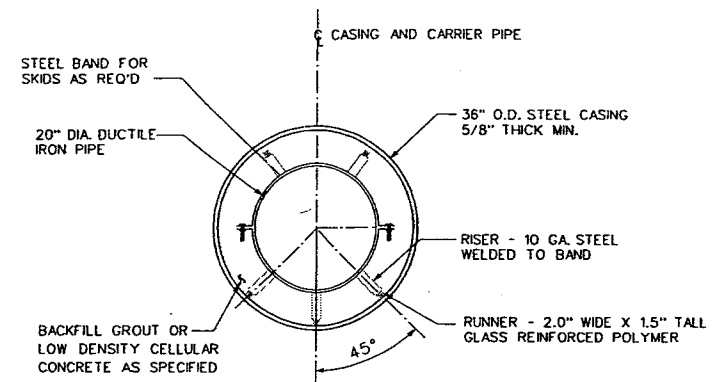


MUSCOY OU REMEDIAL DESIGN
MUSCOY GROUNDWATER
CONTAMINATION SUPERFUND SITE

MISCELLANEOUS DETAILS

Scale: Date: 12/01 Dwg. No.: 25

RECORD DRAWINGS



TYPICAL PIPE SUPPORT SECTION

RECORD DRAWINGS

IF SHEET IS LESS THAN
22" x 34"
IT IS A REDUCED PRINT.
SCALE REDUCED ACCORDINGLY.

1		5-05	RECORD DRAWINGS				DESIGNED BY: <u>JB</u>	<div><div><div>URS</div><div>2520 Veterans Oaks Way, Suite 200 Sacramento, CA 95833-5000 TEL: (916) 625-2548 FAX: (916) 625-7283</div></div><div><div>REGISTERED PROFESSIONAL ENGINEER</div><div>No. 2451</div><div>George S. Barakatis</div><div>Exp. 9/30/02</div><div>ETPE</div><div>STATE OF CALIFORNIA</div></div></div>	<div>MUSCOY OU REMEDIAL DESIGN MUSCOY GROUNDWATER CONTAMINATION SUPERFUND SITE</div>	PIPE BORE AND JACK DETAILS				
						DRAWN BY: <u>ETB</u>								
							CHECKED BY: <u>DHD</u>							
NO.		DATE		DESCRIPTION		NO.		DATE		DESCRIPTION		JOB No. 41-F2501400		
REVISIONS														
Scale:		NO SCALE		Date:		12/01		Dwg. No.:		27				